

CLAIMS

- 1.- Method for the thermo solar distillation and transportation of water from a water table which comprises the steps of: harnessing solar energy; have it strike on a focal point which comprises a pipe in which circulates a fluid; transport the fluid to a coil submerged in a water table in order to bring about the evaporation of the water, dislodging the resulting higher salt density through the underside outlet of the funnel; induce the rising of the steam through the tower, condense the steam in the top part of the tower and allow the condensed water to fall along a pipeline laid in a descending slope.
2. Method according to claim 1, characterized in that the solar energy is harnessed by means of a photovoltaic cell panel and the fluid is brought about to circulate using a pump driven by the electricity furnished by the cells.
3. Apparatus for the thermo solar distillation and transportation of water from a water table which comprises the functional technical combination of: thermo solar energy collectors of the parabolic channel type which concentrate the thermal energy on a focal point, canals which individually consist of a pipe through which flows an

oil which, by means of a pump driven by photovoltaic cells is brought about to circulate through a coil submerged in funnel where it brings about the evaporation of the water and the dislodgement of the remaining water having higher
5 salt density; a tower in which the steam rises to a ceiling plate furnished with cooling fins, on the underside of which the steam condenses and is collected in runoff grooves; a pipeline laid in a descending slope allows the water to descend and be transported by gravity.

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4. Apparatus according to claim 3, characterized in that it comprises a tower which expands at regular intervals as it rises, a descending pipeline which expands at regular intervals while going down, and a trap at the lower end
15 which includes a counterweight and spring, which opens and closes depending upon the quantity of water in the pipeline.

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